MUG - Galactosidase Assay kit

Ordering info:

Cat No.	Size
CA085	500 assays

Includes for 500 assays:

- · 20 mM ß-galactosidase substrate 4MU
- \cdot 10 mM Reference Standard
- · ß-galactosidase enzyme (0.1 mg/mL)
- · Triton X-100
- · 1M DTT
- · Assav Buffer (2x)
- · Stop solution









Description:

The MUG ß-Galactosidase Assay Kit is an efficient, easy and highly sensitive tool to measure levels of active ß-galactosidase expressed in cells transfected with plasmids expressing Lac Z.

Lac Z is often used as reporter gene in Transfection experiments because the ß-galactosidase is highly resistant to proteolytic degradation and its activity is easily measured. ß-galactosidase performs the hydrolysis of 4-methylumbelliferyl B-D-galactopyranoside (MUG) to the 4-methylumbelliferone (4MU). This MUG produces as a bright blue fluorescence that are detected at excitation/emission = 360/460 nm. The concentration of ß-galactosidase is proportional to fluorescence produced.

Advantages & Features:

- Fast, easy and convenient.
- ✓ Easy-to-use method to quantify the enzyme expression in transfected cells.
- ✓ Sensitive: measure ß-galactosidase at femtogram level.

Applications:

Measurement of β -Galactosidase activity in the lysates of transfected cell.

Related Products:

- · PBS (p.133)
- · CANFAST™ Transfection Reagent (p.76)
- · ONPG Galactosidase Assay kit (p.81)
- · FastCONTROL™ Dual Reporter Plasmid (p.28)

ONPG - Galactosidase Assay kit

Ordering info:

Cat No.	Size
CA080	500 assays

Includes for 500 assays:

- · ONPG Substrate solution
- · Buffer Lysis
- · Buffer Assay
- · Buffer Stop · ß-galactosidase enzyme













Related Products:

- · pOnebyOne™ Mammalian expression vectors (p.22)
- \cdot pColiExpress[™] Glue Enzyme kits (p.34)
- · FastCONTROL™ Dual Reporter Plasmid (p.28)
- · Custom solutions (p.147)

The ONPG B-Galactosidase Assay Kit is an optimized, stable and colometric tool to fast measure the levels of active ß-galactosidase expressed in cells transfected with plasmids expressing Lac Z.

Lac Z is often used reporter gene in experiments transfection because the ß-galactosidase is very resistant to proteolytic degradation and its activity is easily measured. ß-galactosidase performs the hydrolysis of orthonitrophenyl-ß-D-galactopyranoside (ONPG) to the ortho-nitrophenol (ONP). This ONP produces as a bright yellow colour that is detected at absorbance 420 nm. The concentration of ß-galactosidase is proportional to colour produced.

Advantages & Features:

- ✓ Proven performance to quantify high expression level of beta-Gal
- ✓ Very stable: resistant to proteolytic degradation and easily assayed.
- Convenient for all transfection assays.
- ✓ Versatile: proven performance for cultured cells and tissues.
- Rapid and easy protocol.
- Cost-effective.

Applications:

Measurement of $\beta\mbox{-}\mbox{Galactosidase}$ activity in the lysates of transfected cells.

